

# **EMERGENCY ACTION PLAN**

## **STORM LAKE DAM**

**BUTTE-SILVER BOW  
DEPARTMENT OF PUBLIC WORKS  
WATER UTILITY DIVISION  
124 WEST GRANITE STREET  
BUTTE, MONTANA 59703-0667  
(406) 497-6540**

**July 2010**

If Storm Lake Dam is failing or failure seems imminent, call:

Anaconda-Deer Lodge County Sheriff..... 911 or (406) 563-5241  
Disaster and Emergency Services- Deer Lodge County  
Mr. Bill Converse..... Office: (406) 563-5571  
..... Home: (406) 563-6723  
..... Cel: (406) 560-3515  
Mr. Dan Dennehy, Director of Public Works ..... Office: (406) 497-6520  
..... Home: (406) 565-0358  
..... Cel: (406) 490-5802

## TABLE OF CONTENTS

I.	INTRODUCTION .....	1
A.	PURPOSE .....	1
B.	DESCRIPTION OF DAM.....	1
C.	ACCESS TO DAM .....	2
D.	HAZARD AREA.....	2
E.	RESPONSIBILITY AND AUTHORITY .....	3
F.	PERIODIC REVIEW/UPDATE.....	3
G.	APPROVAL .....	4
II.	NOTIFICATION PROCEDURES .....	5
A.	IMMINENT OR ACTUAL FAILURE .....	5
B.	POTENTIALLY HAZARDOUS SITUATION .....	7
C.	POSTING OF THE NOTIFICATION FLOWCHART AND DISTRIBUTION OF THE EAP.....	10
III.	MITIGATION ACTIONS .....	11
A.	POTENTIAL PROBLEMS AND IMMEDIATE RESPONSE ACTIONS.....	11
B.	EMERGENCY SUPPLIES AND RESOURCES .....	13
C.	LOCAL CONTRACTORS AND ENGINEERS .....	14

## LIST OF APPENDICES

APPENDIX A – TECHNICAL DATA FOR DAM.....	A-1
APPENDIX B – INUNDATION AND EVACUATION MAPS .....	B-1
APPENDIX C – TELEPHONE DIRECTORY .....	C-1
APPENDIX D – DAM INCIDENT REPORT FORM .....	D-1

## I. INTRODUCTION

### A. Purpose

One of the most important goals of BSB Department of Public Works Water Utility Division in the operation of the Storm Lake Reservoir is to insure the safety of the public at large by the prevention of emergency conditions from occurring. This is to be accomplished by following prescribed maintenance procedures as recommended by the DNRC and required in the dam operating permits. The operating procedures followed by BSB Department of Public Works Water Utility Division for Storm Lake keep the reservoir levels well within the established safety limits of the dam.

The purpose of this emergency action plan (EAP) is primarily to safeguard the lives of the citizens of Anaconda-Deer Lodge County living downstream from Storm Lake Dam and secondarily to reduce damage to their property in the unlikely event of flooding caused by a failure of the dam. Hopefully, this emergency action will not have to be implemented. However, should an emergency occur, this plan will be in place and periodically maintained and practiced in order to insure the viability and effectiveness of the EAP.

### B. Description of Dam

**Storm Lake Dam** is located in Anaconda-Deer Lodge County, in Section 30, Township 4 North (T4N), Range 13 West (R13W) of the Montana Principal Meridian. It is owned by BSB Department of Public Works Water Utility Division. The BSB Department of Public Works Water Utility Division is the operator and is also responsible for acquiring

dam operating permits and the implementation of this EAP. Storm Lake Dam impounds water for industrial use, irrigation and recreation. Technical data pertaining to Storm Lake and its structures are shown in Appendix A.

C. Access to Dam

Storm Lake is located approximately nine miles south of U.S. Highway 10A, with the road access off the highway located approximately one-half mile east of Silver Lake. Storm Lake is approximately 14.5 miles southwest of Anaconda, Montana. In the event that the dam is breached, the access road most likely would be inundated and vehicle access to the dam would be lost. The nearest telephone is at the Silver Lake Pump Station one-half mile west of the Storm Lake turnoff from Highway 10A and the telephone number is 563-6066. The Lester Miller summer residence and is located on the north end of the Silver Lake West Dam and the telephone number is 563-5448.

D. Hazard Area

The hazard area extends downstream from Storm Lake north along the Storm Lake Creek drainage northeasterly to the confluence of the Silver Lake discharge channel and thence easterly and passing under Highway 10A into Cable Meadows where it joins Cable Creek. From Cable Meadows, the inundation zone passes under the highway again and follows along the southern edge of the highway easterly toward West Valley and Anaconda, Montana passing under the highway three more times before reaching Anaconda. Inundation and evacuation maps are in Appendix B.

**E. Responsibility and Authority**

Pursuant to the Dam Safety Act, Chapter 15 of Title 85, MCA, high hazard dam owners are responsible for production, coordination, maintenance, and implementation of emergency action plans. BSB Department of Public Works Water Utility Division, as dam operator, has been assigned this responsibility by the owners of the dam. The extent of BSB Department of Public Works Water Utility Division implementation of the EAP was defined through coordination of this plan with the Anaconda-Deer Lodge County Engineer at 563-4010 and the coordinator of Anaconda-Deer Lodge County Disaster and Emergency Services (DES) at 563-5571.

**F. Periodic Review/Update**

BSB Department of Public Works Water Utility Division will review/update this EAP annually. The EAP will be reviewed by a qualified professional engineer as required by the dam's operating permit no less than every five years.

G. Approval

By my signature, I acknowledge that I, my agent, or my representative, have reviewed this plan and agree to the tasks and responsibilities assigned herein for my company, department and/or agency.

Signature \_\_\_\_\_ Date \_\_\_\_\_

BSB Department of Public Works Water Utility Division

Signature \_\_\_\_\_ Date \_\_\_\_\_

## ANACONDA-DEER LODGE COUNTY ENGINEER

Signature \_\_\_\_\_ Date \_\_\_\_\_

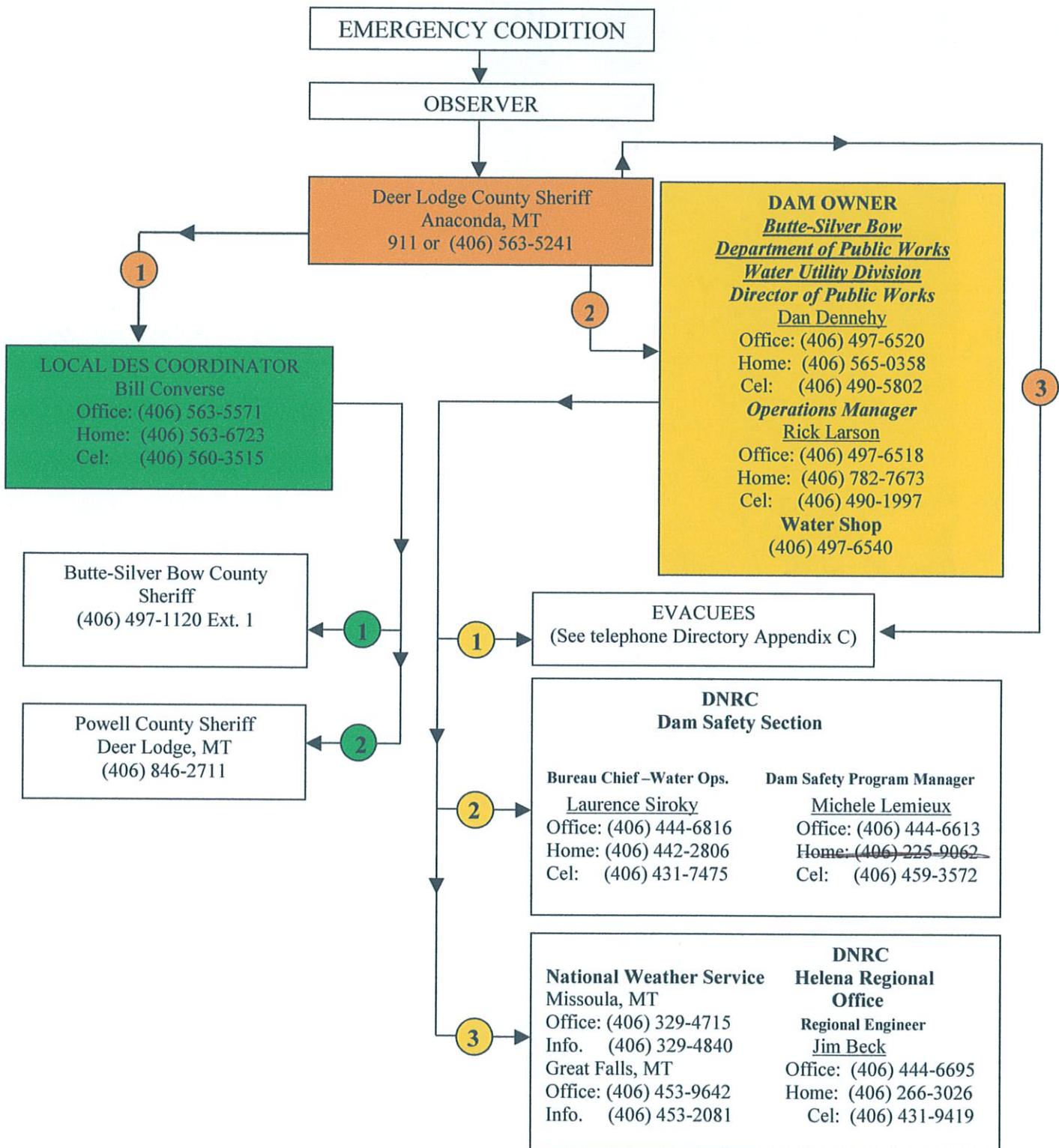
COORDINATOR,  
ANACONDA-DEER LODGE COUNTY  
DISASTER AND EMERGENCY SERVICES

## **II. NOTIFICATION PROCEDURES**

### **A. Imminent or Actual Failure**

If assistance is required to evaluate if a dam is threatened with imminent failure, advice can be sought from the Dam Safety Section of the Department of Natural Resources and Conservation (DNRC). If Storm Lake Dam is failing, two things must be done immediately: (1) the hazard area downstream from the dam must be evacuated, and (2) any steps that might save the dam or reduce damage to the dam or hazard area downstream should be taken. (Refer to the map in Appendix B to determine the areas that are likely to be inundated if the dam fails). The evacuation will be handled according to the county warning plan, and should be initiated as shown in Figure 1.

**FIGURE 1**  
**STORM LAKE DAM**  
**ACTUAL OR IMMINENT FAILURE**  
**"NOTIFICATION FLOWCHART"**



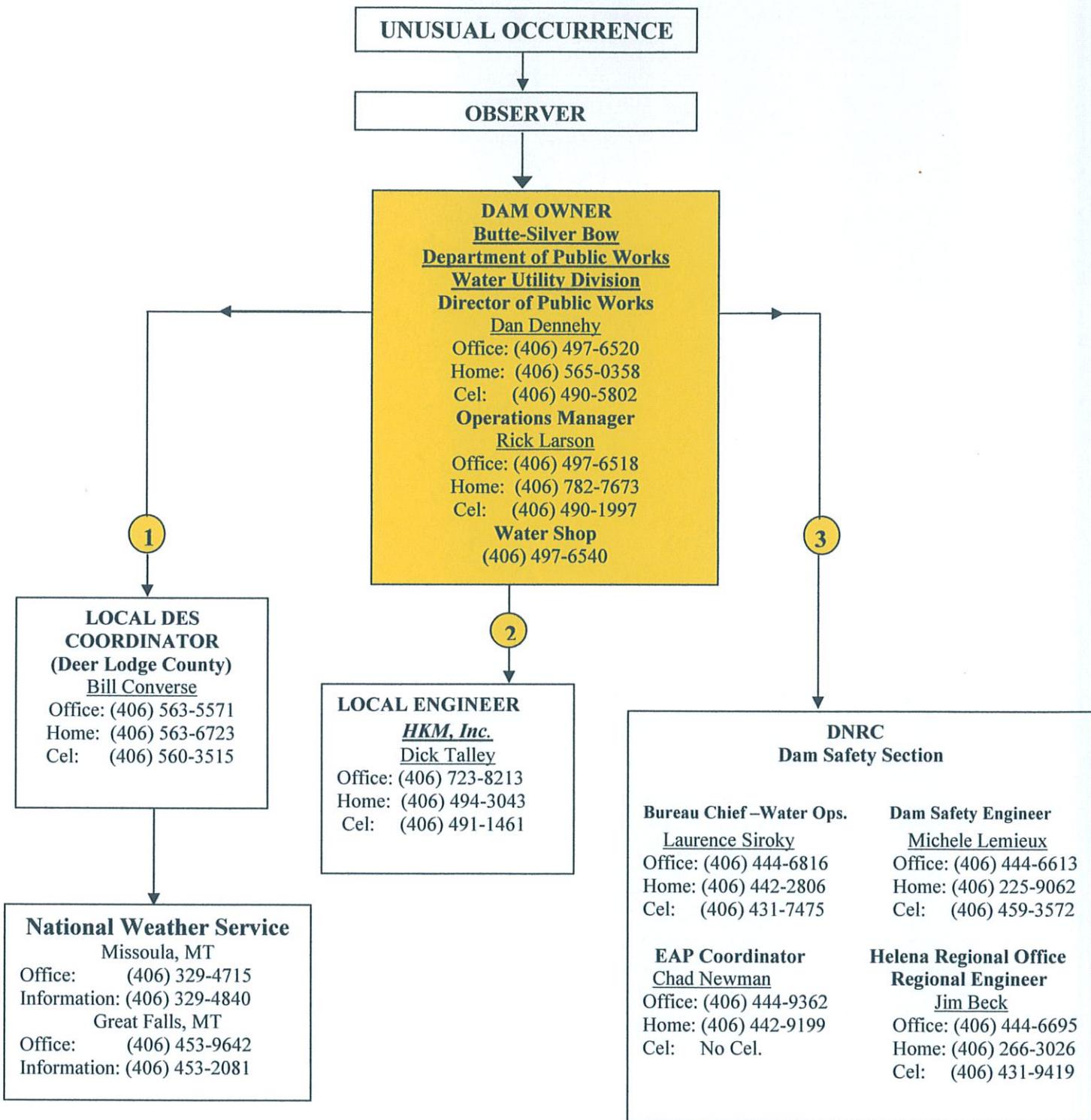
**As dam owner, it is your responsibility to:**

1. Call the Anaconda-Deer Lodge County Engineer at 563-4010 or 563-5241. He will call other authorities and the media and begin the evacuation.
2. Do whatever is necessary to bring anyone in immediate danger to safety. This includes someone on the dam, directly below the dam, boating on the reservoir, or evacuees if so directed by the chief of police.
3. Keep in frequent touch with the coordinator of Disaster and Emergency Services.
4. If all means of communication are lost:
  - a. Attempt to determine the cause of the failure of communications;
  - b. Try to locate another radio or telephone that is functional;
  - c. Get someone else to try to reestablish communications.

**B. Potentially Hazardous Situation**

A potentially hazardous situation is an event or condition not normally encountered in the routine operation of the dam and reservoir. Among the unusual occurrences that may affect the dam are dam embankment problems, failure of the outlet works, heavy precipitation or rapid spring snow melt, landslides, earthquakes, erosion, theft, vandalism, acts of sabotage, and serious accidents. These occurrences may endanger the dam, the public, or the downstream valley and may necessitate a temporary or permanent revision of the dam's operating procedures. Help in these situations can be obtained by notifying those people shown in Figure 2.

**FIGURE 2**  
**STORM LAKE DAM**  
**POTENTIALLY HAZARDOUS SITUATION**  
**"NOTIFICATION FLOWCHART"**



1. If BSB Department of Public Works Water Utility Division personnel discover an unusual condition of the dam embankment that could threaten the structure, we will:

  - a. Perform necessary operating adjustments if required to reduce the seriousness of the situation.
  - b. Contact a qualified engineer inspect the dam as soon as possible to determine whether emergency action is necessary.
  - c. Notify the Anaconda-Deer Lodge Engineer (563-4010).
  - d. Notify the county Disaster and Emergency Services Coordinator (563-5571) of the potential problem.
  - e. Contact the Dam Safety Section of the Department of Natural Resources and Conservation (DNRC).
2. Among the conditions the dam maintenance personnel should watch for are:

  - a. Overtopping of the dam by flood waters
  - b. Loss of material from the dam crest due to storm wave erosion
  - c. Slides on either the upstream or downstream slope of the embankment as evidenced by:

    - (1). Sloughing
    - (2). Cracking
    - (3). Bulging
    - (4). Scarping

- d. Erosional flows through, beneath, or around the embankment as evidenced by:
    - (1). Excessive seepage
    - (2). Discoloration of the seepage
    - (3). Boils on the downstream side
    - (4). Sinkholes
    - (5). Changes in the flow from drains
  - e. Failure of the outlet or spillway due to clogging or erosion
  - f. Movement of the dam on its foundation as evidenced by:
    - (1). Misalignment
    - (2). Settlement
    - (3). Cracking
3. When BSB Department of Public Works Water Utility Division calls either our engineer or the DNRC to report a problem, we will use the form in Appendix D to ensure sufficient information is provided to the DNRC for the engineer to analyze the problems. Section III includes further guidelines for courses of action to take to mitigate the effect of many problems.

- C. Posting of the Notification Flowchart and Distribution of the EAP.  
The Notification Flowchart is posted at the dam and a copy of the EAP is posted at the dam site. The Anaconda- Deer Lodge County Police Dept. and the DES Coordinator have copies of the plan.

### **III. MITIGATION ACTIONS**

Besides normal monitoring of the dam's condition, which is done monthly when road conditions permit and weekly or daily as conditions warrant during the water storage season, BSB Department of Public Works Water Utility Division will provide continuous monitoring and inspection during and after extreme events such as storms and earthquakes. Information on the magnitude of an earthquake or storm can be obtained from the DNRC Dam Safety Section and from the Montana Bureau of Mines and Geology (496-4167). Actions are suggested below to mitigate problems that may develop, but those actions should never be continued at the risk of injury or at the expense of lessening efforts related to evacuation. Monitoring should identify any of the following potential problems.

#### **A. Potential Problems and Immediate Response Actions**

##### **1. OVERTOPPING BY FLOOD WATERS**

- a. Open outlet to its maximum safe capacity.
- b. Place sandbags along the crest to increase freeboard and force more water through the spillway.
- c. Provide erosion-resistant protection to the downstream slope by placing plastic sheets or other materials over eroding areas.
- d. Create additional spillway capacity by making a controlled breach in a low embankment or dike section where the foundation materials are erosion-resistant.

**2. LOSS OF FREEBOARD OR DAM CROSS SECTION DUE TO STORM WAVE**

**EROSION**

- a. Place additional riprap or sandbags in damaged areas to prevent further embankment erosion.
- b. Lower the water level to an elevation below the damaged area.

**3. SLIDES IN THE UPSTREAM OR DOWNSTREAM SLOPE OF THE EMBANKMENT**

- a. Lower the water level at a rate and to an elevation considered safe, given the slope condition. If the outlet is damaged or blocked, pumping, siphoning, or a controlled breach may be required.
- b. Stabilize slides on the downstream slope by:
  - (1). weighting the toe area with additional soil, rock, or gravel, and then
  - (2). restoring lost freeboard by placing sandbags at the crest.

**4. EROSIONAL FLOWS THROUGH THE EMBANKMENT, FOUNDATION, OR**

**ABUTMENTS**

- a. Plug the flow with whatever material is available (hay bales, bentonite, or plastic sheeting if the entrance to the leak is in the reservoir basin).
- b. Lower the water level until the flow decreases to a non-erosive velocity or stops.
- c. Place a protective sand-and-gravel filter or boil ring over the exit area to hold materials in place.

## 5. FAILURE OF APPURTEnant STRUCTURES

- a. Implement temporary measures to protect the damaged structure, such as closing an outlet or protecting a damaged outlet or spillway discharge with riprap.
- b. Lower the water level to a safe elevation. If the outlet is inoperable, pumping, siphoning, or a controlled breach may be required.

## 6. MASS MOVEMENT OF THE DAM ON ITS FOUNDATION (SPREADING OR MASS SLIDING FAILURE)

- a. Immediately lower the water level until excessive movement stops.

## 7. EXCESSIVE SEEPAGE AND HIGH LEVEL SATURATION OF THE EMBANKMENT

- a. Lower the water to a safe level.
- b. Continue frequent monitoring for signs of slides, cracking or concentrated seepage.

## 8. EXCESSIVE SETTLEMENT OF THE EMBANKMENT

- a. Lower the water level by releasing it through the outlet, pumping, siphoning, or a controlled breach.
- b. If necessary, restore freeboard, preferably by placing sandbags.

### B. Emergency Supplies and Resources

Material suitable for riprap to be accessed in an emergency situation is located on the west side of the dam. The large talus slope provides excellent material for riprap and is immediately adjacent to the dam.

**C. Local Contractors and Engineers**

Local Contractors:

Jordan Contracting (Anaconda,MT) ..... (406) 563-8276

Joe Jordan (Owner)..... Cel: (406) 691-1026

Ed McCarthy, (Jordan Contracting –Anaconda)..... Cel: (406) 691-0103

Bob Lash, (Jordan Contracting – Butte) ..... Cel: (406) 691-0102

In an extreme emergency, end loaders, dozers, and other heavy equipment are available from the following:

Silver Bow County Maintenance Shop, Butte, .....(406) 497-6565

Ask for Jocko Stajcar .....(406) 497-6569

Jocko Stajcar (home).....(406) 782-3670

Engineers:

Director of Public Works: Butte-Silver Bow Water Utility Division

Dan Dennehy.....(Office) (406) 497-6520

.....(Home) (406) 565-0358

.....(Cel) (406) 490-5802

Butte-Silver Bow Water Utility Division Operations Manager

Rick Larson.....(Office) (406) 497-6518

.....(Home) (406) 782-7673

.....(Cel) (406) 490-1997

**APPENDIX A**  
**TECHNICAL DATA**  
**FOR**  
**STORM LAKE DAM**

## Technical Data For Storm Lake Dam

Location of Dam:

Section 30, T4N, R13W, MPM; Approx. 9 miles south of Highway 10A near Silver Lake and approximately 14.5 miles southwest of West Valley, Anaconda, Mt.

Height Of Dam: ..... 29 feet

Length of Dam Crest: ..... 500 feet

Crest Width: ..... 13 to 17 feet

Slope of Upstream Face of Dam (Horizontal to Vertical): ..... (variable) 3.5 : 1.0 to 1.5 : 1

Slope of Downstream Face of Dam (Horizontal to Vertical): ..... 1.5 : 1

Spillway Capacity: ..... 520 cubic feet per second

Outlet Capacity: ..... 16 cubic feet per second

Outlet Works: 14 inch diameter steel pipe enclosed in masonry culvert operated by two gate valves in series on the discharge side of the outlet works.

### Reservoir Capacities

Maximum Capacity As Measured To The Lowest Dam Crest Elevation  
(East Dam, 8325.2' local datum): ..... 2,132 acre-feet

Reservoir Capacity Measured To The Spillway Elevation  
(8322.0'): ..... 1,900 acre-feet

Reservoir Capacity Measured To The Normal Pool Target Elevation  
(8310.0'): ..... 1,027 acre-feet

Flood Pool to First Overtopping ..... 1,105 acre-feet

Flood Surcharge Storage From Normal Pool To Spillway Elevation  
(8322.0'): ..... 873 acre-feet

Probable Maximum Flood Volume: ..... 753 to 880 acre-feet

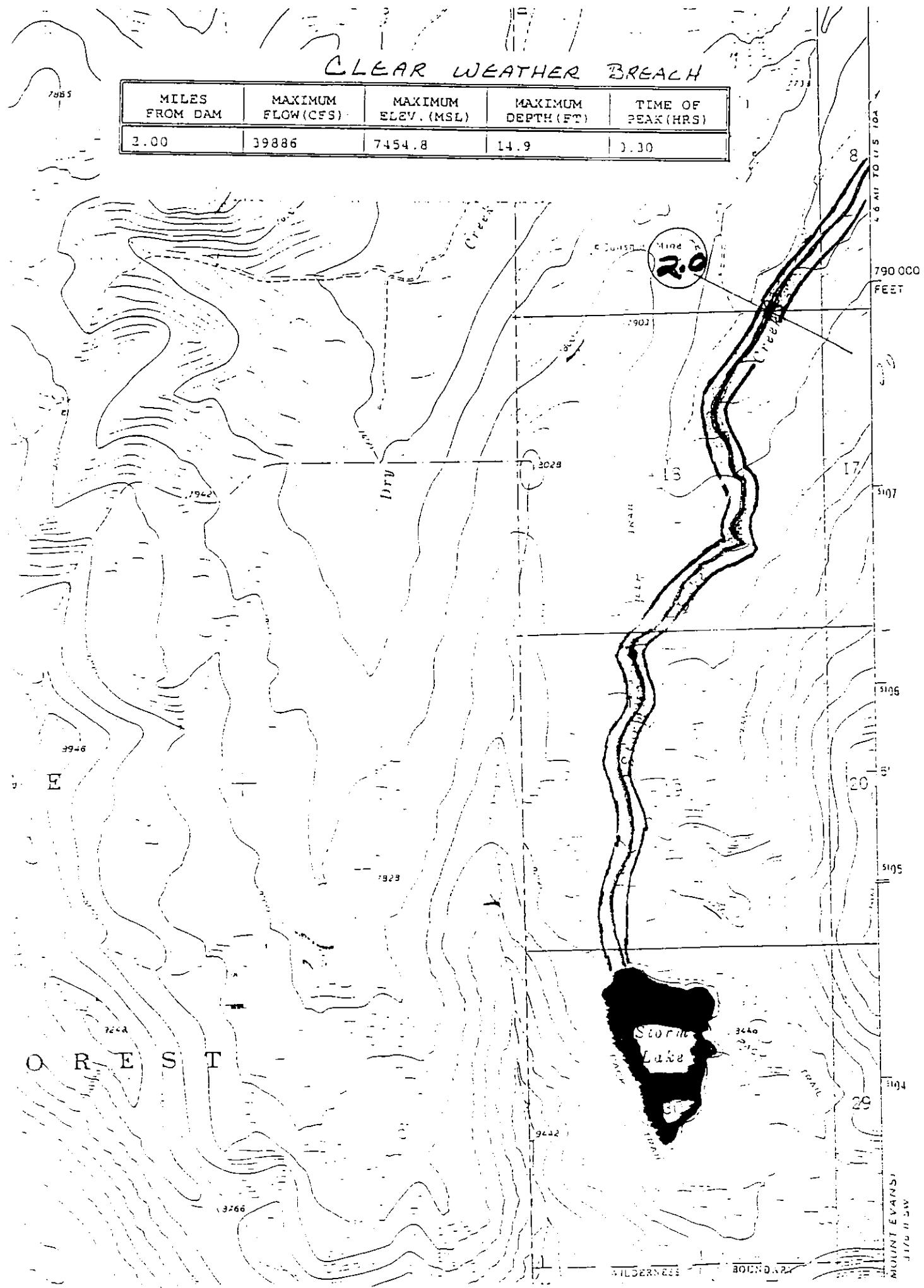


## **APPENDIX B**

### **INUNDATION AND EVACUATION MAPS**

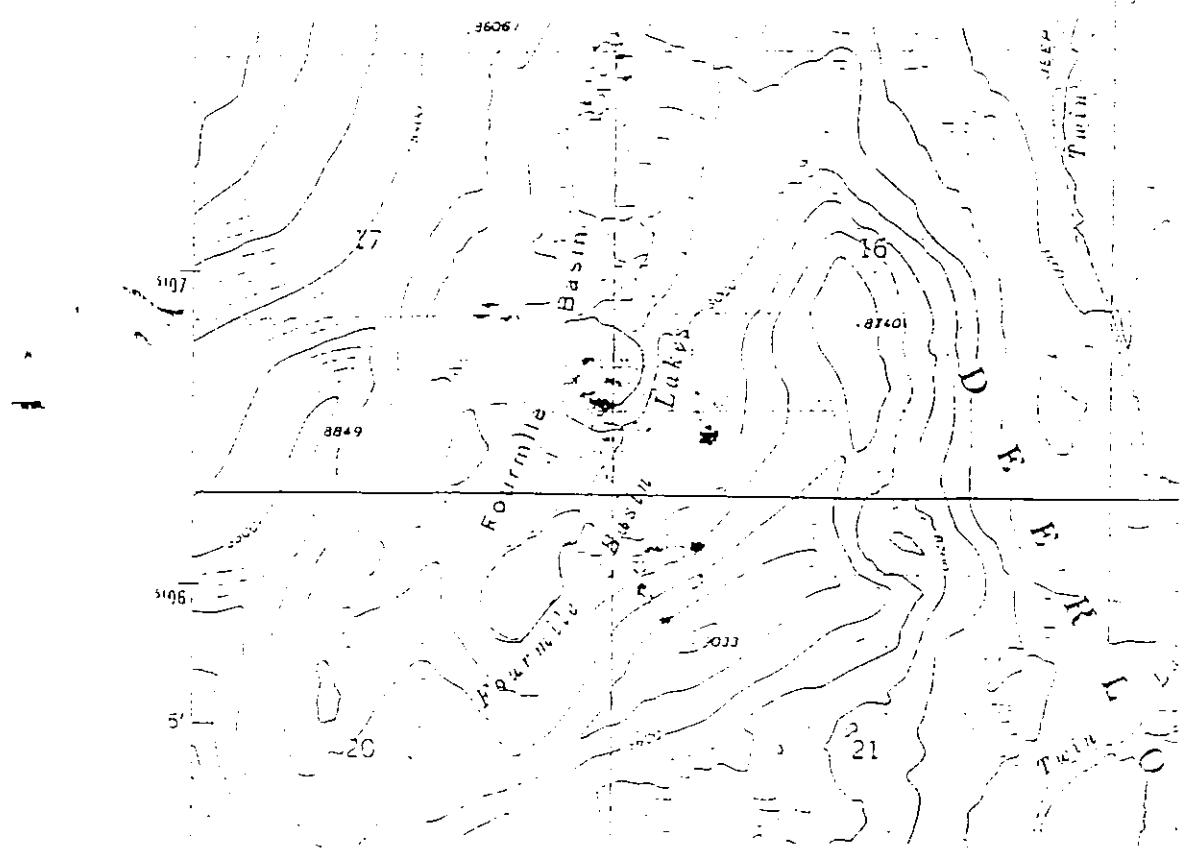
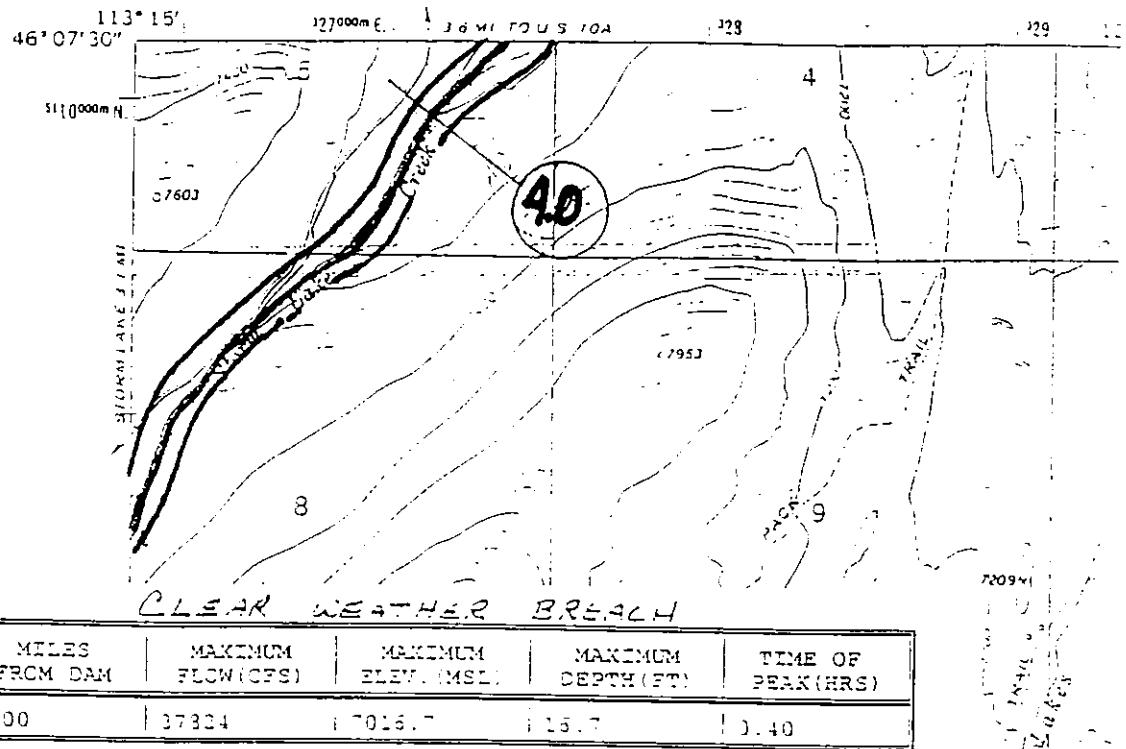
# CLEAR WEATHER BREACH

MILES FROM DAM	MAXIMUM FLOW(CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH(FT)	TIME OF PEAK(HRS)
2.00	39886	7454.8	14.9	0.30

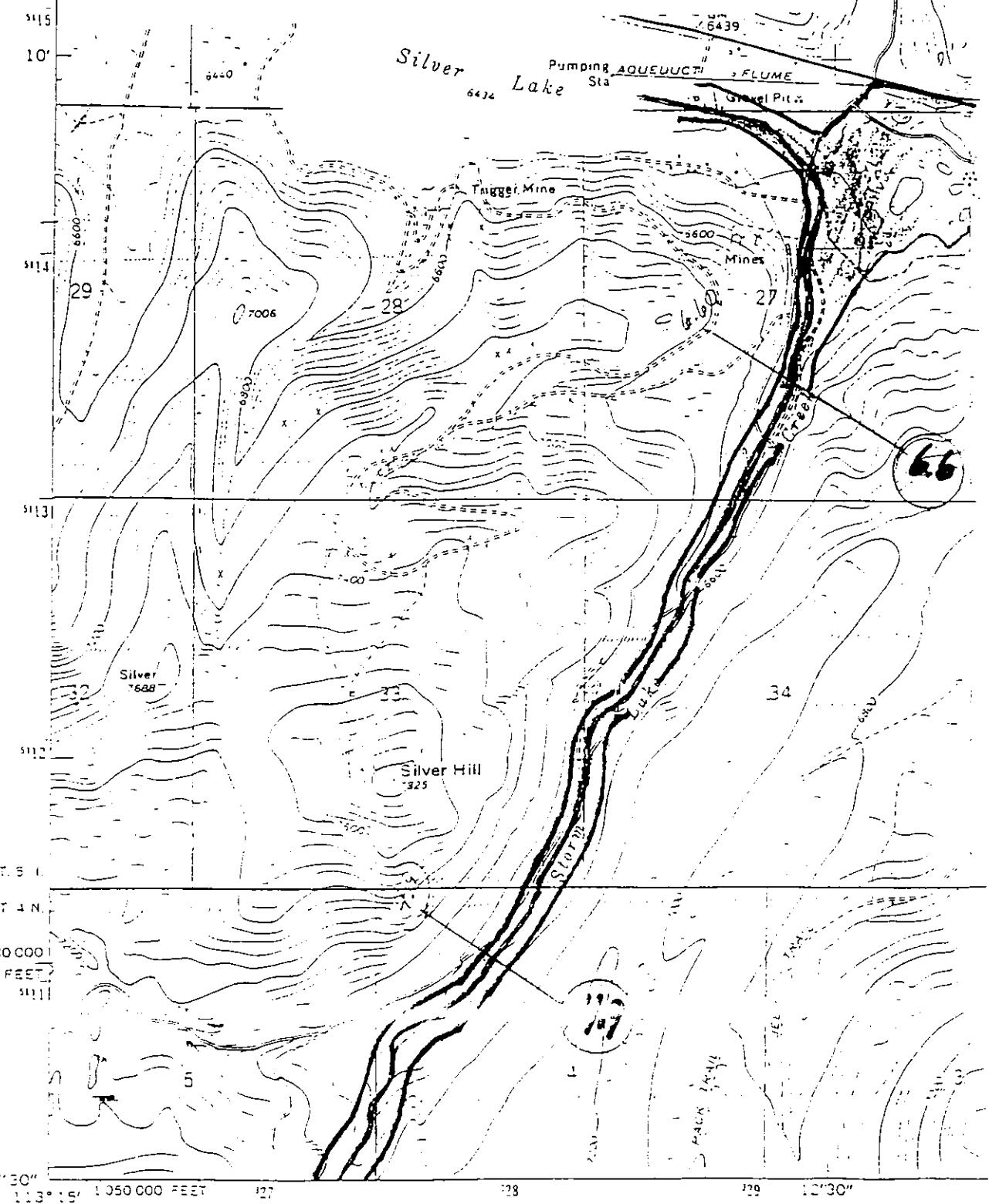


2  
3375' IN THE  
GEORGETOWN LAKE

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

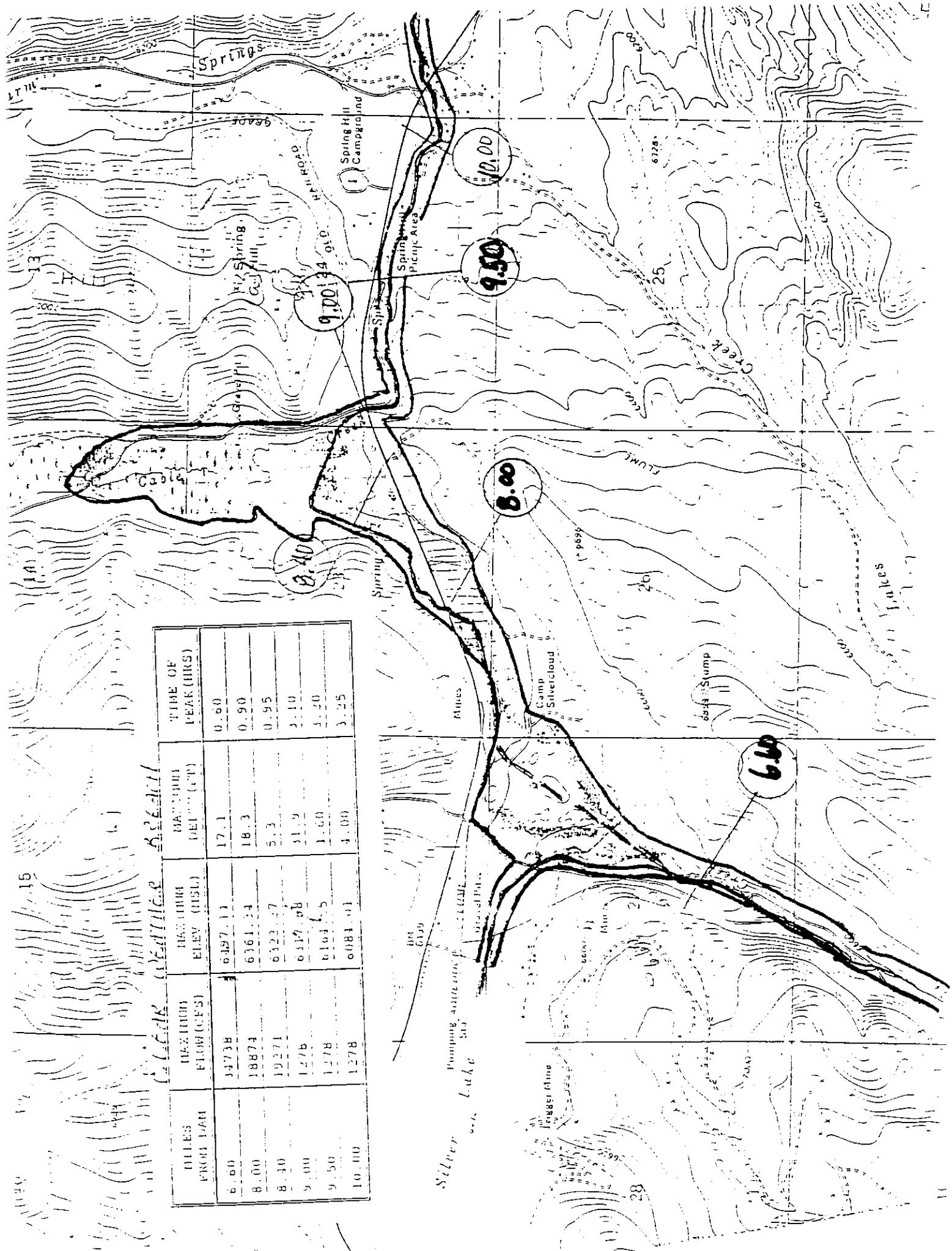


MILES FR CM DAM	MAXIMUM FLOW(CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH(FT)	TIME OF PEAK(HRS)
4.9	36923	6775.57	15.6	0.45
6.60	34738	6497.14	17.1	0.60



Mapped by the U. S. Forest Service  
Edited and published by the Geological Survey  
Control by USGS, USGS, and U. S. Forest Service  
Topography by photogrammetric methods from aerial  
photographs taken 1964 Field checked by USGS 1971  
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Montana coordinate system,  
south zone  
1000-meter Universal Transverse Mercator grid ticks,  
zone 12, shown in blue

1970 GRID AND 1971 MAGNETIC NORTH  
CAMP, NARROW 45' WIDE AS SWIFT



CLEAR WEATHER BREAK				
MILES FROM DAM	MAXIMUM FLOW(CFS)	MAXIMUM ELEV.(MSL)	MAXIMUM DEPTH(FT)	TIME OF PEAK(HRS)
8.00	18874	6364.34	18.3	0.90
8.40	19271	6322.27	5.3	0.95
9.00	1278	6317.88	31.9	3.10
9.50	1278	6164.55	4.60	3.20
10.00	1278	6084.01	4.00	3.25
10.25	1454	6061.1	16.1	1.55
10.50	1426	6004.48	4.5	1.60
11.80	1385	5925.28	5.3	1.85

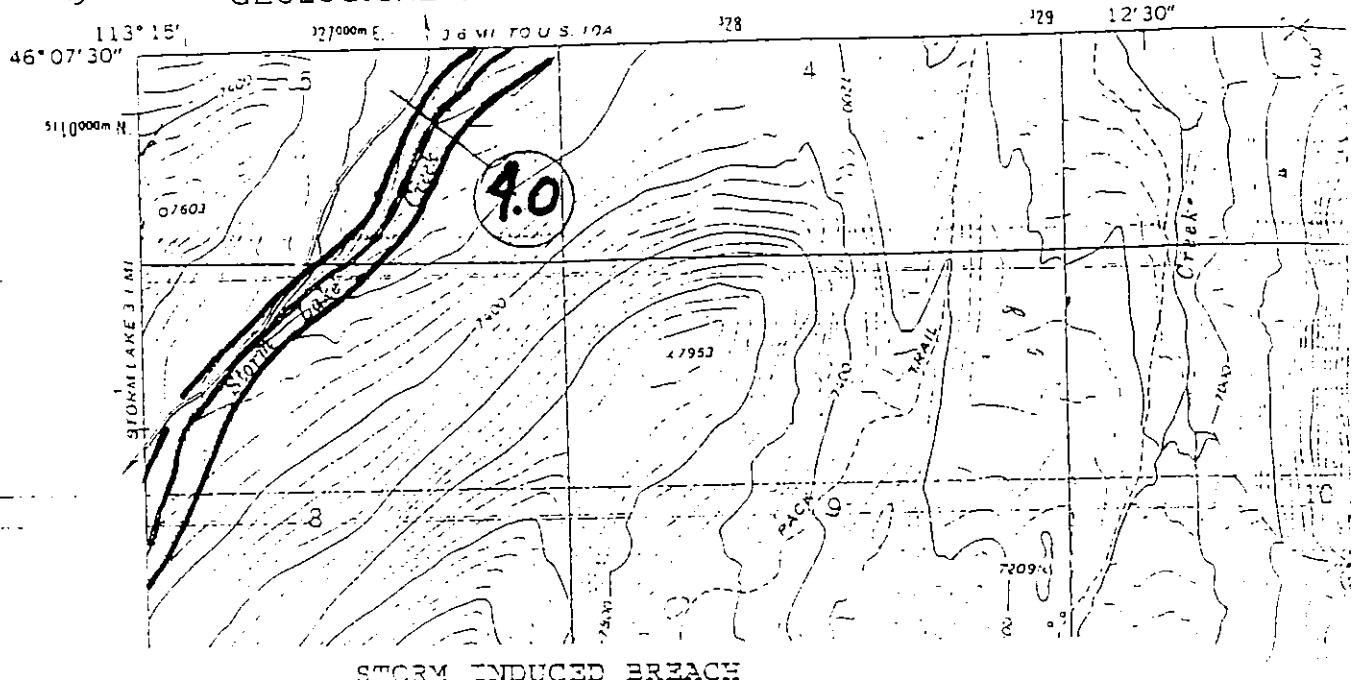
ANAconda 9 MI.  
Butte 34 MI.



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

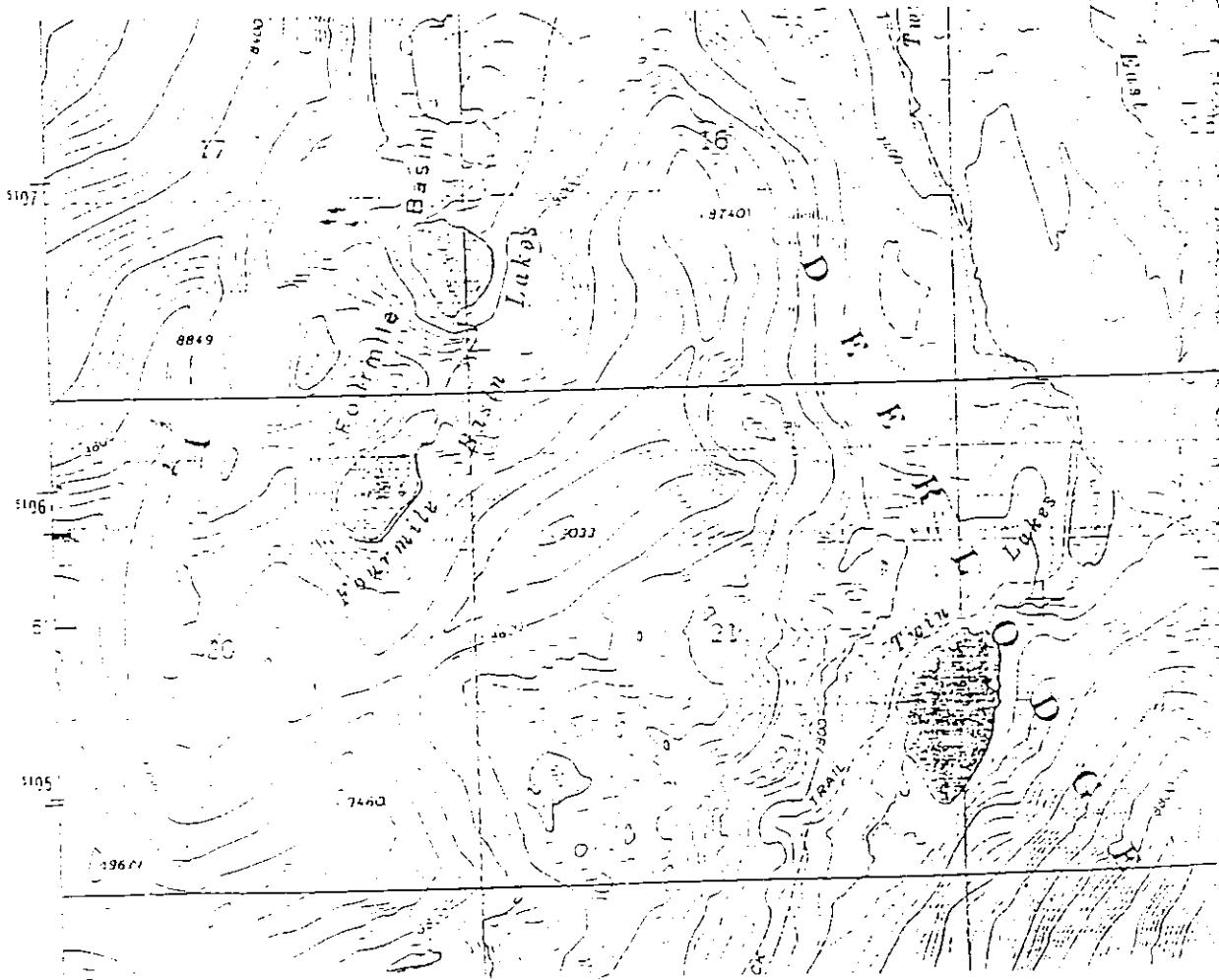
3316 " THE LAKE,  
GEORGETOWN

7



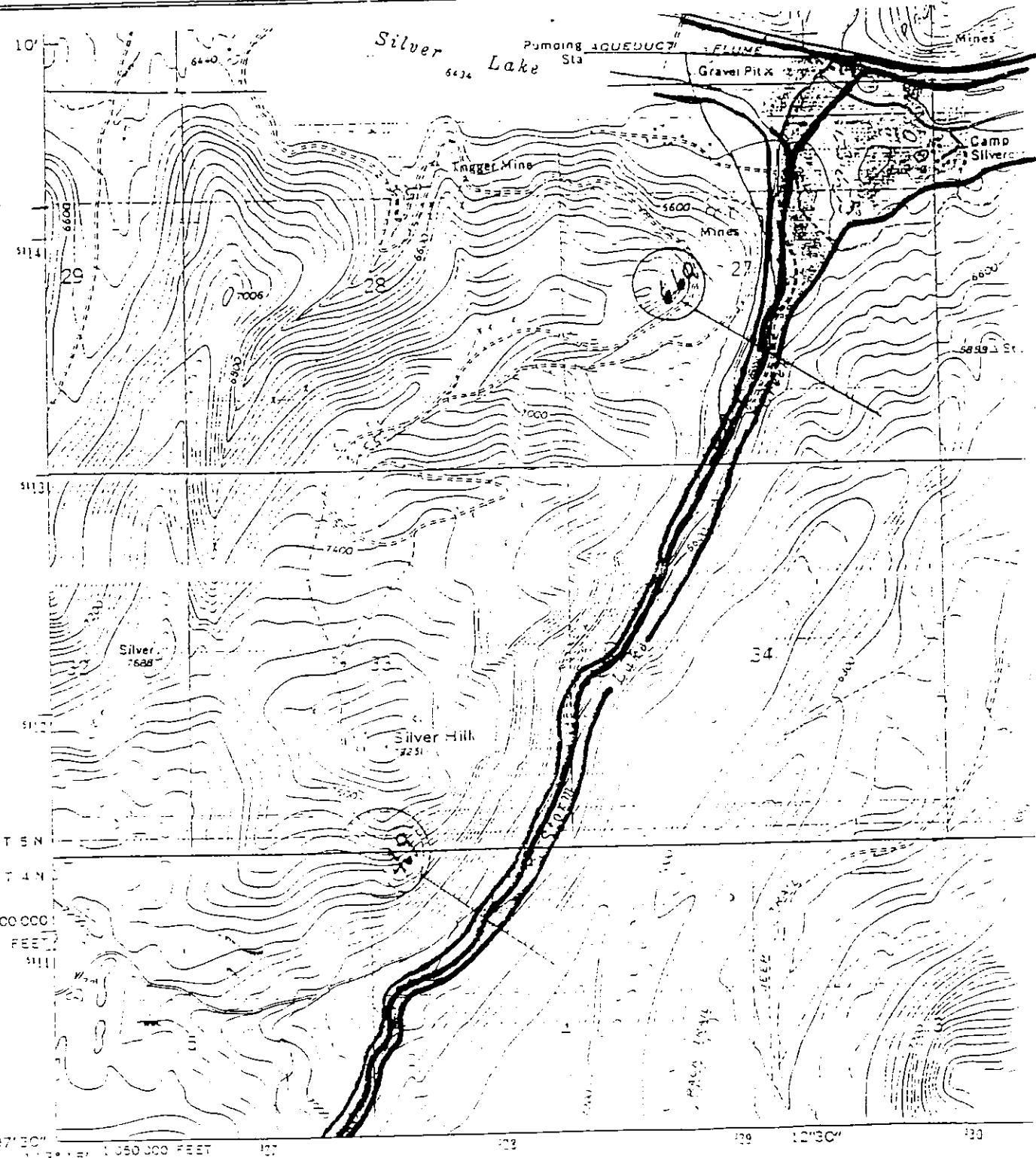
## STORM INDUCED BREACH

MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
0.00	10100	815.5	15.5	0.36



## STORM INDUCED BREACH

MILES FROM DAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	MAXIMUM DEPTH (FT)	TIME OF PEAK (HRS)
4.90	55748	6675.6	15.6	0.42
6.60	51921	6497.0	17.0	0.59



Mapped by the U. S. Forest Service

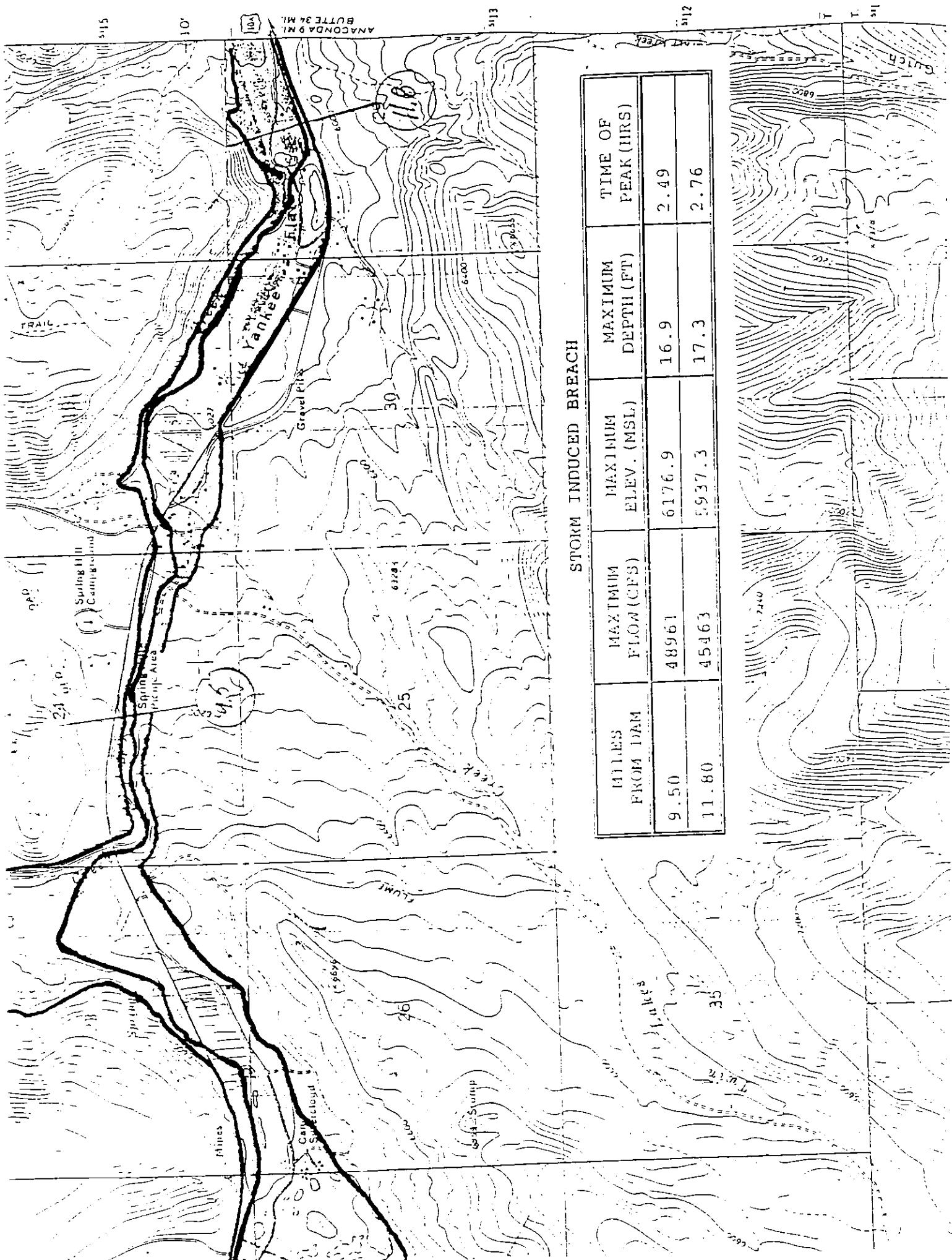
Edited and published by the Geological Survey

Control by USGS, JSC&GS, and U. S. Forest Service

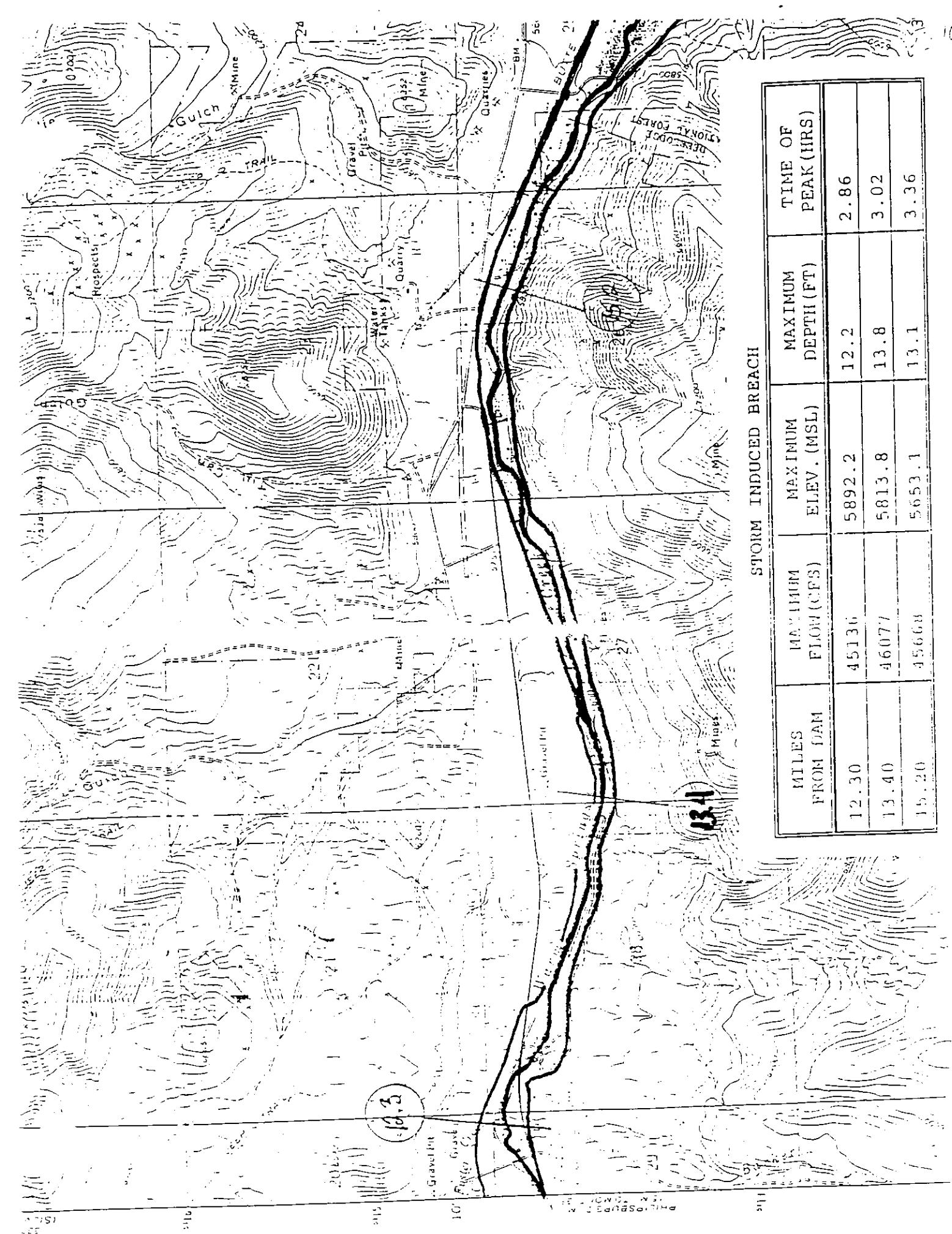
Topography by photogrammetric methods from aerial photographs taken 1964. Field checked by USGS 1971

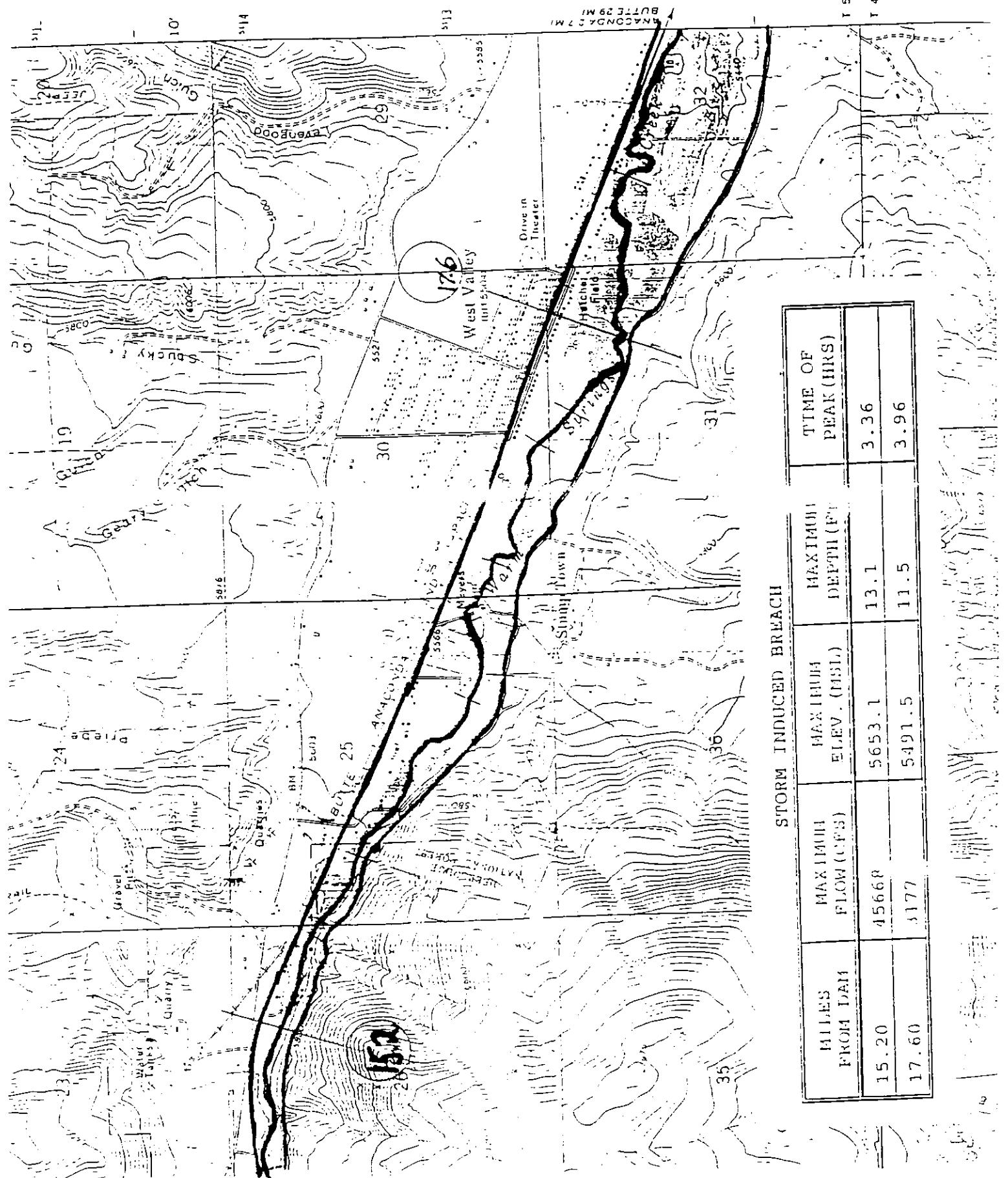
Polyconic projection. 1927 North American datum  
10,000-foot grid based on Montana coordinate system,  
south zone

STORM BREACH  
113° 15' 40"

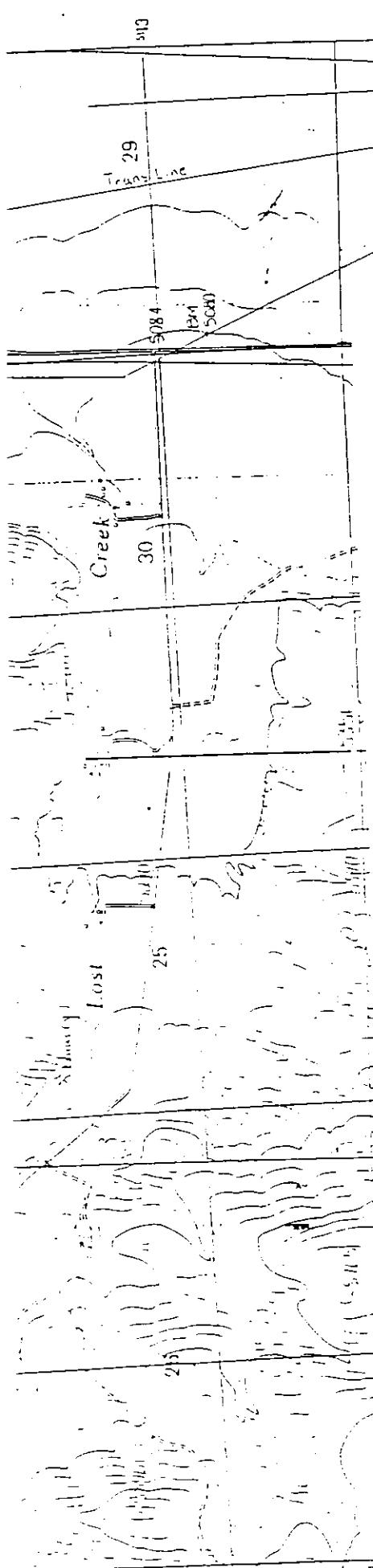


STORM INDUCED BREACH			
MILES FROM JAM	MAXIMUM FLOW (CFS)	MAXIMUM ELEV. (MSL)	TIME OF PEAK (HRS)
12.30	45136	5892.2	12.2
13.40	46077	5813.8	13.8
15.20	45668	5653.1	13.1



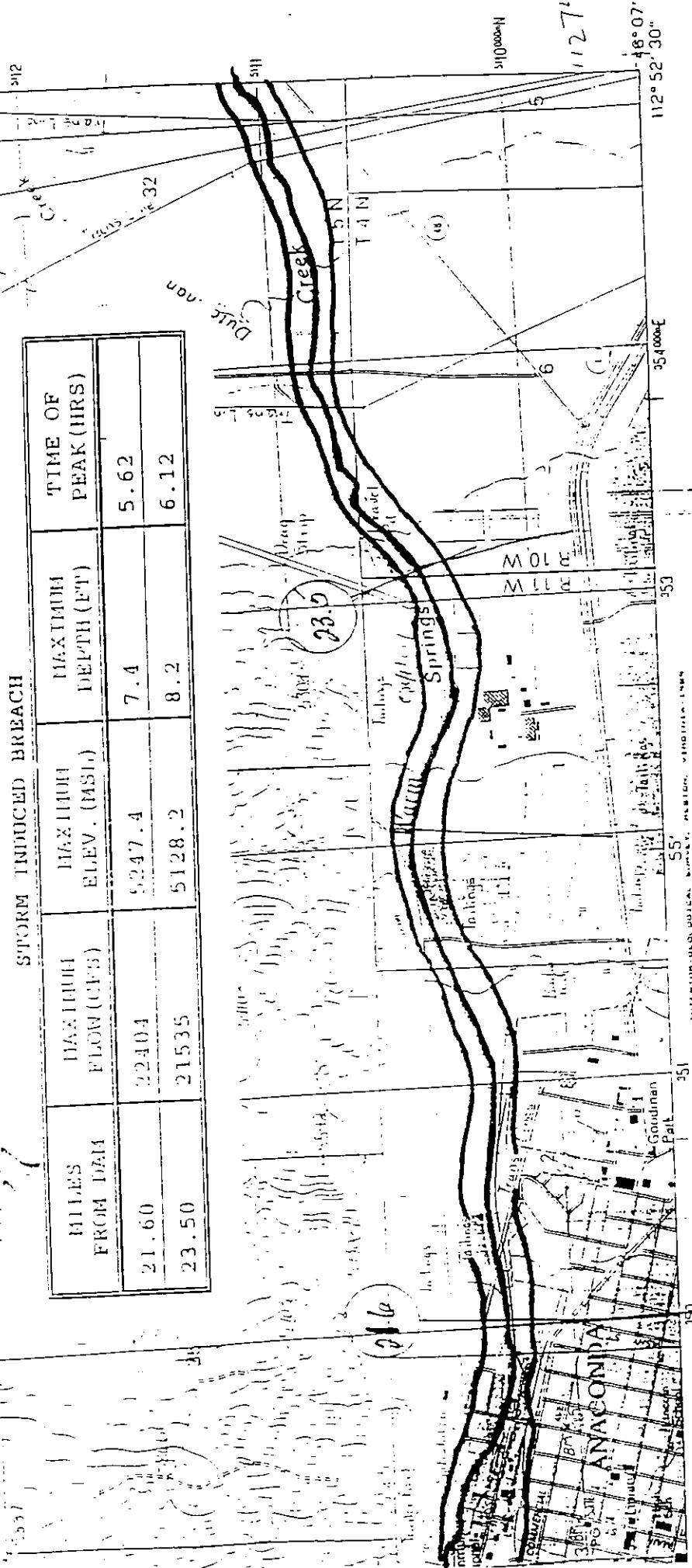






ESTATE PLANNING IN INDIA

STORM INDUCED BREAKAWAY		MAXIMUM FLOW (CFS)		MAXIMUM DEPTH (FT)		TIME OF PEAK (HRS)	
MILES FROM DMR	MAXIMUM ELEV. (MASL)	MAXIMUM ELEV. (MASL)	MAXIMUM ELEV. (MASL)	MAXIMUM DEPTH (FT)	MAXIMUM DEPTH (FT)	MAXIMUM DEPTH (FT)	MAXIMUM DEPTH (FT)
21.60	22404	22474	22474	7.4	7.4	7.4	5.62
23.50	21535	5128.2	5128.2	8.2	8.2	8.2	6.12



כטבָּה לְכַלִּים

Improved Road	.....
Unimproved Road	.....
Trail	.....

PUBLICATIONS RECEIVED

INTRODUCTION

SILVER

## **APPENDIX C**

## **TELEPHONE DIRECTORY**

## TELEPHONE DIRECTORY

### A. Priority One

1. Butte-Silver Bow Public Works Water Utility Division
  - a. Operations Manager: Butte-Silver Bow Water Utility Division  
Rick Larson.....(Office) (406) 497-6518  
.....(Home) (406) 782-7673  
.....(Cel) (406) 490-1997
  - b. Silver Lake Pump Station .....(406) 563-6066
  - c. Meyers Dam.....(406) 563-6919
  - d. Georgetown Dam: Northwest Energy System  
Operations Control Center .....(406) 494-4131
1. EMERGENCY NUMBER .....911  
Deer Lodge County Police .....911 OR (9:00 A.M.-5:00 P.M.) (406) 563-5241
2. DISASTER AND EMERGENCY SERVICES
  - a. Deer Lodge County .....(Office) (406) 563-5571  
Bill Converse.....(Home) (406) 563-6723  
.....(Cel) (406) 560-3515
  - b. MT Disaster and Emergency Services Division (Helena)  
.....(406) 841-3911
3. EVACUEES
  - a. None

### B. Priority Two

4. LOCAL ENGINEERS
  - a. Butte-Silver Bow Water Utility Division Engineer  
Rick Larson.....(Office) (406) 497-6518  
.....(Home) (406) 782-7673  
.....(Cel) (406) 490-1997
  - b. HKM Engineering, Inc (Butte, MT) .....(Office) (406) 723-8213  
Dick Talley, .....(Home) (406) 494-3043  
.....(Cel) (406) 491-1461
  - c. HKM Engineering, Inc (Billings, MT) .....(Office) (406) 656-6399  
Jason Thom .....(Home) (406) 252-7964  
.....(Cel) (406) 861-9562
  - d. Pioneer Technical Services (Butte, MT).....(Office) (406) 782-5177  
Brad Archibald.....(Home) (406) 494-6549  
.....(Cel) (406) 490-3032
  - e. Everly and Associates (Butte, MT).....(Office) (406) 782-1738  
Bob Everly .....(Home) (406) xxx-xxxx  
.....(Cel) (406) 490-1738

5. MONTANA DEPARTMENT OF NATURAL RESOURCES AND CONSERVATION
- a. Dam Safety Section.....(Office) (406) 444-6613
  - b. Michele Lemieux.....(Home) (406) 225-9062  
.....(Cel) (406) 459-3572
  - c. EAP Coordinator .....(Office)(406) 444-9362  
Chad Newman.....(Home) (406) 442-9199  
.....(Cel) No Cel.
  - d. Water Operations Bureau.....(Office) (406) 444-6816
  - e. Laurence Siroky, Bureau Chief.....(Home) (406) 442-2806  
.....(Cel) (406) 431-7475
  - f. Larry Schock, Regional Engineer  
(Missoula Regional Office) .....(Office) (406) 542-5885  
.....(Home) (406) 721-2073  
.....(Cel) (406) 360-1632
  - g. Jim Beck, Regional Engineer  
(Helena Regional Office) .....(Office) (406) 444-6695  
.....(Home) (406) 266-3026  
.....(Cel) (406) 431-9419
6. NATIONAL WEATHER SERVICE
- Great Falls, MT .....(406) 453-9642
  - Information.....(406) 453-2081
  - Missoula, MT .....(406) 329-4715
  - Information.....(406) 329-4840
7. LOCAL CONTRACTORS
- a. Jordan Contracting (Anaconda, MT).....(406) 563-8276  
Joe Jordan (Owner).....Cel: (406) 691-1026  
Ed McCarthy, (Jordan Contracting –Anaconda)...Cel: (406) 691-0103  
Bob Lash (Jordan Contracting) ..... Cel: (406) 691-0102
  - b. Jim Gilman Excavating Inc., (Butte, MT).....(406) 723-8324
- In an extreme emergency, end loaders, dozers, and other heavy equipment are available from the following:
- a. Silver Bow County Maintenance Shop, Butte, .....(406) 497-6565
  - b. Ask for Jocko Stajcar.....(406) 497-6569  
.....Home (406) 782-3670
8. BUREAU OF LAND MANAGEMENT.....(406) 533-7600
9. MONTANA DEPARTMENT OF STATE LANDS.....(406) 444-2074
10. U.S. FOREST SERVICE, REGIONAL ENGINEERING OFFICE.....(406) 494-2147

**APPENDIX D**

**DAM INCIDENT REPORT FORM**

## **DAM INCIDENT REPORT FORM**

DATE \_\_\_\_\_ TIME \_\_\_\_\_

NAME OF DAM \_\_\_\_\_

STREAM NAME \_\_\_\_\_

LOCATION \_\_\_\_\_

COUNTY \_\_\_\_\_

OBSERVER \_\_\_\_\_

OBSERVER TELEPHONE \_\_\_\_\_

NATURE OF PROBLEM \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

LOCATION OF PROBLEM AREA (Looking Downstream) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

EXTENT OF PROBLEM AREA \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

FLOW QUANTITY AND COLOR \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

WATER LEVEL IN RESERVOIR \_\_\_\_\_

IS SITUATION WORSENING? \_\_\_\_\_

EMERGENCY STATUS \_\_\_\_\_

CURRENT WEATHER CONDITIONS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

ADDITIONAL COMMENTS \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_